L 20922-6

ACC NR: AP6002591

effectiveness of gathering the debris on the surface of the water and for discharging the debris on shore. The gathering-transport unit is made in the form of a reversible conveyor with a water-permeable mesh conveyor belt. The conveyor is attached to the barge by hinge-swivel arms which hold the conveyor at an inclined position in respect to the surface of the water for gathering of the debris. The arms also lift the conveyor to an inclined position in relation to the shore for discharging of the debris. To mechanize the contents of the bunker, the take-away carriage is connected by a cable to a reversible winch. Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 30Dec63/

Card 2/2 ULR

ALIMOV, Aleksey Petrovich; GOL'VINSKIY, Leonid Voynovich; KRUGLYAKOVA, Mariya Dmitriyevna; SKOROBOGATYY, G.I., retsenzent; YATSENKO, V.D., retsenzent; GRABILIN, Yu.N., otv. red.

[Mechanization of auxiliary processes in the building of coal mines] Mekhanizatsiia vspomogatel'nykh protsessov v shakhtnom stroitel'stve. Moskva, Nedra, 1965. 178 p. (MIRA 18:9)

YATSENKO, V.D., inzh.

Using folding metal formwork for lining horizontal workings. (MIRA 18:4)
Shakht. stroi. 9 no.2:24-25 F '65.

1. Kombinat Donetskshakhtostroy.

FEDOROV, A.M., gornyy inzh.; YATSENKO, V.D., gornyy inzh.

Selecting the most economical way of rock hauling during vertical shaft sinking. Ugol' Ukr. 2 no.12:34-39 D '58. (MIRA 12:1)
(Shaft sinking) (Mine haulage--Costs)

KHANIN, A.M., inzh.; YATSENKO, V.D., inzh.

Precast reinforced concrete timbering in mines of the Stalinshakhtostroy Combine. Shakht. stroi. 5 no. 1:22-24 Ja '61. (MIRA 14:2)

(Precast concrete construction)
(Mine timbering)

KOKIN, V.K., inzh.; YATSENKO, V.D., inzh.; GRAMMATIKOV, A.N., inzh.

Brief news. Shakht. stroi. 5 no. 1:29-31 Ja '61. (MIRA 14:2)

(Coal mines and mining) (Mining engineering)

KOKIN, V.K., inzh.; YATSENKO, V.D., inzh.

Nov. Shakht. stroi. 5 no.8:28-29 Ag '61. (MIRA 16:7)

(Stalino Province—Mine timbering)

KOSHELEV, Konstantin Vasil'yevich; DOLZHENKO, Vladimir Ivanovich; OSAULENKO, Ivan Yemel'yanovich; YATSENKO, Vladimir Dmitriyevich; KHANIN, Aleksey Mikhaylovich; FEDOROVA. A.M., red.; KRASOVSKIY, I.P., red. izd-va; LOMILINA, L.N., tekhn. red.

[Timbering permanent workings of deep shafts] Kreplenie kapital'nykh vyrabotok glubokikh gorizontov shakht. Pod red. A.M. Fedorova. Moskva, Gosgortekhizdat, 1963. 75 p. (MIRA 16:7)
(Mine timbering)

ZATSENKO, V. F.

"Over-all Carrying Capacity and Deformation of Wooden Beams During Bending." Cand. Tech Sci, Inst of Construction Mechanics, Acad Sci Ukr SSR, Kiev, 1953. Dissertation (Referativnyy Zhurnal--Mekhanika Moscow, Feb 54)

SO: SUM 186, 19 Aug 1954

YATSENKO, V.F.

Experimental investigation of the stability and deformability of wooden beams subjected to bending. Prykl. mekh. 2 no.1: 92-99 '56. (MLRA 10:2)

1. Institut budivel'noi mekhnaiki Akademii nauk URSR.
(Girders) (Flexure)

SOV/124-58-2-2336

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 2, p 111 (USSR)

AUTHORS: Kolenchuk, K. I., Sukhomel, Ye. G., Yatsenko, V. F.

TITLE: Contribution to the Problem of the Failure of Rectangular Wooden Beams (K voprosu o razrushenii derevyannykh balok pryamougol'nogo secheniya)

PERIODICAL: Tr. Kiyevsk. gidromelior. in-ta, 1956, Nr 6, pp 227-234

ABSTRACT: It is concluded that in the bending of wooden beams the shearing stresses are not as dangerous as has been considered hitherto; it is proposed that rectangular beams be analyzed without consideration of shearing stresses.

Reviewer's name not given

Card 1/1

YATSENKO, V.F.

124-58-6-7241

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 6, p 128 (USSR)

AUTHORS: Belyankin, F.P., Kolenchuk, K.I., Yatsenko, V.F.

TITLE: On the Long-time Strength Properties of Wood (O dlitel'nom soprotivlenii drevesiny)

PERIODICAL: Sb. tr. In-ta stroit. mekhan. AN UkrSSR, 1956, Nr 21, pp 103-114

ABSTRACT: The nature of the problem of determining the long-time rupture-strength properties of wood is examined, and means therefor are discussed. The choice of the time reference base to be used in testing to determine these properties is substantiated, and a method is propounded for estimating them (in a multiple-stress condition) from data obtained from tensile and compression tests. Experimental verification of the method's workability is described for a case of pure bending. Experimental rupture-strength curves are given for pine, oak, and beech (tested for tension, compression, cleavage strength along the grain, and pure bending).

1. Wood--Mechanical properties 2. Wood--Test results

B.N.Ugolev

Card 1/1

SOV/124-57-4-4740

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 124 (USSR)

AUTHOR: Yatsenko, V. F.

TITLE: The Bending of Wooden Beams With Due Allowance for Plastic Deformations (Izgib derevyannykh balok s uchetom plasticheskikh deformatsiy)

PERIODICAL: Sb. tr. In-ta stroit. mekhan. AN UkrSSR, 1956, Nr 21, pp 119-133

ABSTRACT: The article is based on universally adopted hypotheses. An equation is derived permitting the determination of the Bach coefficients for beams of arbitrary cross section as well as for the particular case of beams of rectangular, circular, semicircular, I-shaped, and box-shaped cross sections. Compared with existing solutions, the formulas for the last four types of sections are found to be more accurate. It is pointed out that for beams of any cross section having at least one axis of symmetry the relationship between the Bach coefficient and the values of the ratio of the ultimate tensile to the ultimate compressive strength along the fibers is always expressed in the form of a hyperbolic function. In addition to determining the Bach coefficient, the author presents formulas for all the types of beams examined

Card 1/2

The Bending of Wooden Beams With Due Allowance for Plastic Deformations

above; with the aid of these formulas the ultimate bending moment and geometric characteristics of the cross section of a beam operating in the elastic-plastic region can be determined. It is pointed out that, depending on geometrical characteristics of the section and the strength characterisitics of the material of I-beams and box-beams, three different design cases are possible.

F. P. Belyankin

Card 2/2

YATSENKO, Vladimir Filippovich

PHASE I BOOK EXPLOITATION 260

Belyankin, Fedor Pavlovich and Yatsenko, Vladimir Filippovich

Deformativnost' i soprotivlyayemost' drevesiny kak uprugo-vyazko-plasticheskogo tela (Deformability and Strength of Wood as an Elastic, Ductile and Plastic Substance) Kiev, Izd-vo AN Ukr. SSR, 1957. 198 p. 2,000 copies printed.

Sponsoring agency: Akademiya nauk Ukrainskoy SSR. Institut stroitel'noy mekhaniki.

Resp. Ed.: Grozin, B.D., Corresponding Member, Ukrainian S.S.R. Academy of Sciences; Ed. of Publishing House: Pokrovskaya, Z.S.; Tech. Ed.: Zhukovskiy, A.D.

PURPOSE: This book is intended for use in laboratories in the testing of construction and machine-building materials. It may also be useful to engineers working in organizations concerned with structural design.

Card 1/6

Deformability and Strength of Wood as an Elastic, Ductile and Plastic Substance 260

COVERAGE: Results are given of a study of the laws of deformation development and of the strength of resilient, ductile, plastic bodies subjected to external forces over a period of time. The results of an investigation into the effects on a body of a prolonged constant load are studied experimentally and theoretically developed. On the basis of the study of deformation development and of the strength of materials under a prolonged constant lead, formulae are derived for the determination of the basic mechanical characteristics of materials subjected to forces for short periods in machine testing with given loading speed and given rate of deformation. There are 28 references,26 of which are Soviet and 2 English.

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AC/MTL
6-4-58

YATSENKO, V. F.
KOLENCHUK, K.I. [deceased]; YATSENKO, V.F.

The continuous resistivity and deformativity of delta-wood.
Dop. AN URSR no.2:130-132 '57. (MLRA 10:5)

1. Institut budivel'noi mekhaniki AN URSR. Predstaviv akademik AN URSR F.P. Belyankin.
(Wood--Testing) (Strength of materials)

21-1-7/26

AUTHOR: Yatsenko, V.F.

TITLE: An Accelerated Method for Determination of the Durable Resistance Limit of Wood (Uskorennyy metod opredeleniya predela dolgovremennogo soprotivleniya drevesiny)

PERIODICAL: Dopovidi Akademii Nauk Ukrains'koi RSR, 1958, # 1, pp 33-36 (USSR)

ABSTRACT: On the basis of the theory of strength and deformability of wood as an elastic-tough-plastic solid, the author developed an accelerated method for determining the durable resistance limit of wood. It takes a minimum of time to carry out an investigation by this method, and ordinary testing machines can be used for this purpose. The method proposed is based on the following two assumptions:

1. There is a linear relation between the critical stress, which gives rise to plastic deformations at a permanently operating load, and the rate of increase of the plastic deformation. This relation was repeatedly confirmed by experiments, and it serves also as a basis for the Belyankin accelerated method (used in the Institute of Construction Mechanics of the Ukrainian Academy of Sciences).

2. The critical rate of the increase of elastic deforma-

Card 1/2

An Accelerated Method for Determination of the Durable Resistance Limit of Wood

tions corresponds to the critical stress.

Using these assumptions, it is possible to determine a dependence between the critical stress and the critical rate of elastic deformation increase, from the tests on machines. This method makes it possible to determine the limit of durable strength during one or two hours. The method was experimentally checked and compared with the method of the Institute of Construction Mechanics. A graph, pictured in Figure 3, shows that the results of both of these methods are in satisfactory agreement.

The article contains 3 graphs and 4 Russian references.

ASSOCIATION: Institute of the Construction Mechanics (Instytut budivel'noi mekhaniky AN URSR) of the Ukrainian Academy of Sciences

PRESENTED: By Academician of the Ukrainian Academy of Sciences F.P. Belyankin

SUBMITTED: 22 March 1957

AVAILABLE: Library of Congress

Card 2/2 1. Wood-Stresses 2. Wood-Load distribution 3. Wood-Test methods 4. Wood-Test results 5. Wood-Theory

YATSENKO, V.F.(Kiiv)

Supporting action factor in the bending of wooden beams [with summary in English]. Prikl. mekh. 4 no. 2:223-229 '58. (MIRA 11:8)

1. Institut budiv el'noi mekhaniki AN URSR.
(Flexure)

15(8, 10)

SOV/21-59-1-7/26

AUTHOR: Yatsenko, V.F.

TITLE: A Quick Method for Determining the Protracted Modulus of Elasticity (Uskorennyy metod opredeleniya dlitel'nogo modulya uprugosti)

PERIODICAL: Dopovidi Akademii nauk Ukrains'koi RSR, 1959, Nr 1, pp 26-28 (USSR)

ABSTRACT: A quick method of determining the long-duration modulus of elasticity of elastic-viscous-plastic materials (like wood or plastics) is suggested, requiring only a few hours of work instead of a month or longer, as required by the conventional methods, and permitting the determination of the instantaneous modulus of elasticity as well. The method consists in the use of linear relation between the critical stress, during machine testing, and the critical elastic deformation, as well as the relation between the critical stress

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SOV/21-59-1-7/26

A Quick Method for Determining the Protracted Modulus of Elasticity

and the critical rate of development of elastic deformation, determined in short-duration machine tests. There are 2 graphs and 4 Soviet references.

ASSOCIATION: Institut stroitel'noy mekhanika AN UkrSSR (Institute of Structural Mechanics of the AS UkrSSR)

PRESENTED: October 9, 1958, by F.P. Belyankin, Member of the AS UkrSSR

Card 2/2

YATSENKO, V.F.

Development of the problem "Scientific fundamentals of strength and plasticity" by the institutes of the Department of Technology of the Academy of Sciences of the Ukrainian S.S.R. in 1958. Prykl. mekh. 5 no.3:344-348 '59. (MIRA 13:2)

1.Uchenyy sekretar' Komissii po probleme moshchnosti i plastichnosti. (Strength of materials) (Plasticity)

SOV/21-59-6-10/27

16 (1)

AUTHORS: Yatsenko, V. F., and Dybenko, H. I.(Dybenko, G.I.)

TITLE: Effects of the Dimensions of the Sample on the Compressive Strength of DSP Plastic

PERIODICAL: Dopovodi Akademii Nauk Ukrains'koi RSR, 1959, Nr 6, pp 615-619 (USSR)

ABSTRACT: The authors studied the effect of the scale factor on the compressive strength of DSP plastic. Since the loading rate affects the ultimate strength, a testing method was adopted which allowed the rate of stress increase to remain constant for all dimensions of the samples with a varying rate of loading. DSP plastic is used by the industry in power constructions (in bearings and other important components) as a substitute for expensive non-ferrous metals and alloys. Depending on the technology employed in their preparation, DSP plastics are subdivided into three categories: a) DSP-B, in which every 10 - 20 layers of thin birch sheets with parallel filaments are superimposed by a layer of sheets with filaments crossing the filaments of the below layer at

Card 1/3

Effects of the Dimensions of the Sample on the Compressive Strength of DSP Plastic

90°. b) DSP-V, in which the layers of sheets criss-cross one another through the whole thickness of the plastic. c) DSP-G, in which the direction of filaments changes within the plastic thickness every 30°. As a construction material, DSP plastic in the majority of instances is subjected to compression. GOST 5704-51 requires that a test compression be made on 15 x 15 x 15 mm samples, under a permanent compression speed of V_p = 4500 kg per minute. At that, the rate of stress increase is 2000 kg/cm^2 per minute. All samples subjected to testing had a 6.3 humidity. The authors tested 10 - 30 samples of every category of DSP plastic, having cross sections ranging from 1.4 to 25 cm^2. Tests were performed on hydraulic "Baldwin" machines, with pressing capacities of 30, 100 and 300 tons. About 600 samples were tested. The results are compiled in 4 graphs and 1 table. It was established that a change in the sample area of about 18 times has practically no effect on the ultimate compressive strength of DSP plastic.

SOV/21-59-6-10/27

Effects of the Dimensions of the Sample on the Compressive Strength of DSP Plastic

There are 4 graphs and 1 table.

ASSOCIATION: Institut stroitel'noy mekhaniki AN UkrSSR (Institute of Construction Mechanics of the AS UkrSSR)

PRESENTED: By F.P. Belyankin, Member, AS UkrSSR

SUBMITTED: January 13, 1959

Card 3/3

BELYANKIN, Fedor Pavlovich; YATSENKO, Vladimir Filippovich; GROZIN, B.D., otv.red.; TITOVA, N.M., red.izd-va; LIBERMAN, T.R., tekhn.red.

[Strength and deformability of wooden rods subjected to central and eccentric compression and to simple flexure] Prochnost' i deformativnost' dereviannykh sterzhnei pri tsentral'nom vnetsentrennom szhatii i chistom izgibe. Kiev, Izd-vo Akad.nauk USSR, 1960. 83 p. (MIRA 13:11)

1. Chlen-korrespondent AN USSR (for Grozin).
(Strains and stresses) (Elastic rods and wires)

YATSENKO, V.F.

Conference on the use of plastics. Prykl.mekh. 6 no.3: 355-357 '60. (MIRA 13:8)
(Plastics--Congresses)

YATSENKO, V.F.

First Republic conference on problems in the use of plastics in machinery and instrument manufacture. Dop.AN URSR no.7:989-993 '60. (MIRA 13:8)

(Plastics)

43768

S/653/61/000/000/017/051
I007/I207

15.8510

AUTHOR: Yatsenko, V.F.

TITLE: Mechanical strength and deformability of plastics as elastic-viscous-plastic bodies under long-term action of constant load

SOURCE: Plastmassy v machinostroyenii i priborostroyenii. Pervaya resp. nauch.-tekh. konfer. po vopr. prim. plastmass v mashinostr. i priborostr., Kiev, 1959. Kiev, Gostekhizdat, 1961, 206-226

TEXT: This is a report of investigations into strenth and deformability of plastics taking into account time as one of the basic factors involved. Although the results do not characterize the great diversity of known plastics, they may be applied to certain groups of laminated plastics (textilite, glass-reinforced plastics, paper-base laminated plastics, etc.). The analysis of the experimental data

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S/653/61/000/000/017/051
I007/I207

Mechanical strength and deformability...

establishes common laws governing variation of strength and deformability under constant load with due consideration of the time factor. Description of these experiments is given and formulas are derived for calculation of the development rate for plastic deformations and elastic deformations of stress-relieving, of the relationships between critical stress and loading rate, and also between ultimate strength and loading rate. From the experimental data it results that long-term characteristics may be determined from short-term tests. There are 7 figures.

Card 2/2

YATSENKO, V.F.

Effect of the dimensions of cross sections on the bearing capacity of wooden beams subjected to bending. Zbir.prats'. Inst.mekh. AN URSR no.23:149-152 '61. (MIRA 14:12)
(Strength of materials)

BELYANKIN, Fedor Pavlovich; YATSENKO, Vladimir Filippovich; DYBENKO, Georgiy Ivanovich; KOVALENKO, A.D., akademik, otv. red.; TITOVA, N.M., red. izd-va; KADASHEVICH, O.A., tekhn. red.

[Engineering characteristics of the DSP plastic] Mekhanicheskie kharakteristiki plastika DSP. Kiev, Izd-vo Akad. nauk USSR, 1961. 124 p. (MIRA 15:2)

1. Akademiya nauk USSR (for Kovalenko).
(Plastics--Testing)

BELYANKIN, F.P., otv. red.; BEZUGLYY, V.D., red.; GROZIN, B.D., red.; DRAYGOR, D.A., red.; GURARIY, M.G., red.; LOGAK, N.S., red.; MITSKEVICH, Z.A., red.; PESIN, L.M., red.; RYBCHEVSKIY, Yu.S., red.; CHERNENKO, L.D., red.; YATSENKO, V.F., red.; KUDRYAVTSEV, G., red.; LUPANDIN, I., red.; SHAFETA, S., tekhn. red.

[Use of plastics in the manufacture of machinery and instruments] Plastmassy v mashinostroenii i priborostroenii. Kiev, Gos. izd-vo tekhn. lit-ry USSR, 1961. 573 p. (MIRA 14:12)
(Plastics) (Machinery industry) (Instrument manufacture)

S/081/62/000/009/066/075
B101/B144

AUTHOR: Yatsenko, V. F.

TITLE: Strength and deformability of plastics considered as visco-elastic-plastic bodies under permanent loading

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 9, 1962, 591, abstract 9P42 (Sb. "Plastmassy v mashinostr. i priborostr.", Kiyev, Gostekhizdat USSR, 1961, 206 - 227)

TEXT: Results of studies on the strength and deformability of plastics, in which due consideration was given to time as one of the most important factors, are briefly presented. In the course of analyzing the experimental data, a generally valid law was discerned which governs changes in strength and deformability of laminated structural plastics (ДСП (DSP), textolite, glass-reinforced plastics and others) under the action of static permanent loading. [Abstracter's note: Complete translation.]

Card 1/1

BELYANKIN, F.P. [Bieliankin, F.P.]; YATSENKO, V.F.

Longitudinal bending of a rod subjected to central compression.
Zbir.prats'. Inst.mekh.AN URSR no.23:92-99 '61. (MIRA 14:12)

(Elastic rods and wires)

BELYANKIN, F.P. [Bieliankin, F.P.]; YATSENKO, V.F.

Regularities in the development of plastic deformations in wood subjected to continuous long acting loads. Zbir.prats'. Inst.mekh.AN URSR no.23:135-148 '61. (MIRA 14:12)
(Deformations(Mechanics))

33711
S/198/62/008/001/004/005
D/299/D302

11.2313

AUTHOR: Yatsenko, V. F. (Kyyiv)

TITLE: Elements of the theory of bending of viscoelastic-plastic rods

PERIODICAL: Prykladna mekhanika, v. 8, no. 1, 1962, 63-70

TEXT: Creep and relaxation of viscoelastic-plastic materials under bending are discussed. In the case of laminar plastics ДСП (DSP), glass plastics, cellulose, etc., the maximum strength limit σ_1, the critical stress σ_c and the long-life endurance limit σ_e have larger values under elongation than under compression; this has as a consequence that under bending the deformations develop differently in time (as a function of the magnitude of the bending moment). In the case of bending by a constant load, four different types of deformation may arise: a) The stress applied to the (external) compressed fiber is smaller than or equal to the long-life endurance limit under compression, and the stress applied to the (external) elongated fiber is smaller than the long-life edurance limit under elongation. In this case, only elastic and viscoelas-

Card 1/4

Elements of the theory ...

tic strains develop in the compression and elongation zones of the rod; the elastic strains develop during an infinitely long period of time, but do not lead to fracture of the rod. b) The stress applied to the compressed fiber is larger than the long-life endurance limit under compression, whereas the stress of the elongated fiber is smaller than the endurance limit. In this case, elastic and viscoelastic strains develop in the compression and elongation zones, as well as plastic strains in the compression zone. Notwithstanding the plastic strains, no fracture of the material occurs. c) Both the stress applied to the compressed fiber and that to the elongated fiber are larger than the corresponding long-life endurance limits. In this case, elastic buckling develops first (in the compression zone), followed by viscoelastic which develops during a critical interval (the first critical interval of time), followed in turn by viscoelastic-plastic buckling; the latter develops until the moment when plastic strains arise in the elongation zone; hence their duration (the second critical interval) depends on the critical interval of viscoelastic-strain development in the elongation zone. After the development of viscoelastic-plastic buckling

Elements of the theory ...

the ensuing plastic buckling leads to fracture of the material. The corresponding conditions are formulated, connecting the stresses σ, bending moments M and buckling f. It is noted that plastic strains may arise first in the elongation zone and then in the compression zone. d) If the material is mostly concentrated in the compression zone, fracture may occur even without the development of plastic strains in that zone. In this case, buckling develops during a single critical interval of time. The conditions are set up for stress relaxation. Proceeding from the connection between creep and relaxation, four cases of stress relaxation may occur. Depending on the magnitude of the given axial strain, the relaxation may either lead to fracture or not. In the first case, the relaxation is due to viscoelastic strains only. In the second case, plastic strains arise in the compression zone. No fracture takes place in the first 2 cases. In the 3rd case, fracture occurs as a result of the development of elastic and plastic stresses in both zones; this case is characterized by 2 critical time-intervals. In the 4th case, fracture occurs. These 4 cases of relaxation correspond to the above 4 cases of creep. The results of the investigation permit

Card 3/4

Elements of the theory ...

developing a theory of bending of viscoelastic-plastic rods, allowance being made for the time factor, proceeding from the basic parameters of such materials under compression and elongation. There are 5 Soviet-bloc references.

ASSOCIATION: Instytut mekhaniky AN USSR (Institute of Mechanics AS UkrRSR)

SUBMITTED: June 26, 1961

Card 4/4

YATSENKO, V. F. (Kiyev)

Theory of the bending of rods in time considering plastic deformations in the compression zone. Prykl. mekh. 8 no.6: 658-664 '62. (MIRA 15:10)

1. Institut mekhaniki AN UkrSSR.

(Elastic rods and wires)

L 17471-63 EPR/EWP(j)/EPF(c)/EWT(m)/BDS AFFTC/ASD Pr-4/Ps-4/Pc-4 RM/WW

ACCESSION NR: AP3004775 S/0191/63/000/008/0041/0045

74

AUTHORS: Yatsenko, V. F.; Dy*benko, G. I.

TITLE: Prolonged strength of laminated plastics

SOURCE: Plasticheskiye massy*, no. 8, 1963, 41-45

TOPIC TAGS: DSP resin, KAST-V fiberglass, VFT-S fiberglass, SVAM fiberglass

ABSTRACT: Strength curves were drawn for laminates using DSP resins and KAST-V, VFT-S, and SVAM fiberglasses. The strengths decreased asymptotically with time. This levelling out of the strength curves, or the strength limits Sigma can best be represented as an exponential function

$$\sigma = a + b \cdot e^{-\alpha\left(\frac{t}{t_1}\right)^c}$$

where a and b are coefficients dependent on material strength; c is constant

Card 1/2

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ACCESSION NR: AP3004775

dependent on rate of change of breakpoint with time; t is breaking time; t_1 is the starting time for the curves in which the strength limit changing with time reaches a value exceeding the value of the limit of prolonged strength by $1\frac{1}{2}$ (tolerance in determining characteristic strength); and Alpha is a constant coefficient dependent on tolerance in tension at the starting point of the tests at t_1. Orig. art. has: 5 figures and 7 formulas.

ASSOCIATION: none

SUBMITTED: 00 DATE ACQ: 28Aug63 ENCL: 00

SUB CODE: MA NO REF SOV: 022 OTHER: 000

Card 2/2

YATSENKO, V.F.; DYBENKO, G.I.

Effect of loading velocity on tensile strength of glass plastics at normal temperatures. Zav.lab. 29 no.5:598-599 '63. (MIRA 16:5)

1. Institut mekhaniki AN UkrSSR.
(Glass reinforced plastics--Testing)

BELYANKIN, Fedor Pavlovich; YATSENKO, Vladimir Filippovich; DYBENKO, Georgiy Ivanovich; KOVALENKO, A.D., akademik, otv. red.; GILELAKH, V.I., red.

[Strength and deformability of laminated plastics] Prochnost' i deformativnost' sloistykh plastikov. Kiev, Naukova dumka, 1964. 217 p. (MIRA 17:12)

1. Akademiya nauk Ukr.SSR (for Kovalenko).

ACC NR: AM6026327 Monograph UR/

Yatsenko, Vladimir Filippovich

Strength and creep of laminated plastics; compression, tension, bending (Prochnost' i polzuchest' sloistykh plastikov; szhatiye, rastyazheniye, izgib) Kiev, "Naukova dumka", 1966. 203 p. illus., biblio. (At head of title: Akademiya nauk Ukrainskoy SSSR. Institut mekhaniki) 2700 copies printed.

TOPIC TAGS: laminated plastic, wood, mechanical property, ~~strength~~, plastic deformation, elastic deformation, compressive strength, tensile strength, ~~flexural strength~~, creep, calculation method, testing method

PURPOSE AND COVERAGE: This book presents the results of an experimental study of the mechanical properties of wood and such laminated plastics as various glass-reinforced plastics or DSP (a material consisting of thin birch ply-wood impregnated with phenol- or cresol-formaldehyde resin). The basic laws are given which govern the change in time of the strength, and the plastic and elastic deformability of these materials. Engineering methods are described for calculation of the strength and deformability in compression, tension and flexture of laminated plastics and wood as elasto-visco-plastic materials, considering time factor. Accelerated

Card 1/3 UDC: NONE

ACC NR: AM6026327

methods are described for determination of the characteristics of long-time strength and deformability of laminated plastics and wood. The book is intended for workers of scientific research organizations, higher educational institutions, plant laboratories, and design and planning offices. There are 103 Soviet and 11 Western references.

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ACC NR: AM6026327

SUB CODE: 11/ SUBM DATE: 20Jan66/ ORIG REF: 103/ OTH REF: 011/

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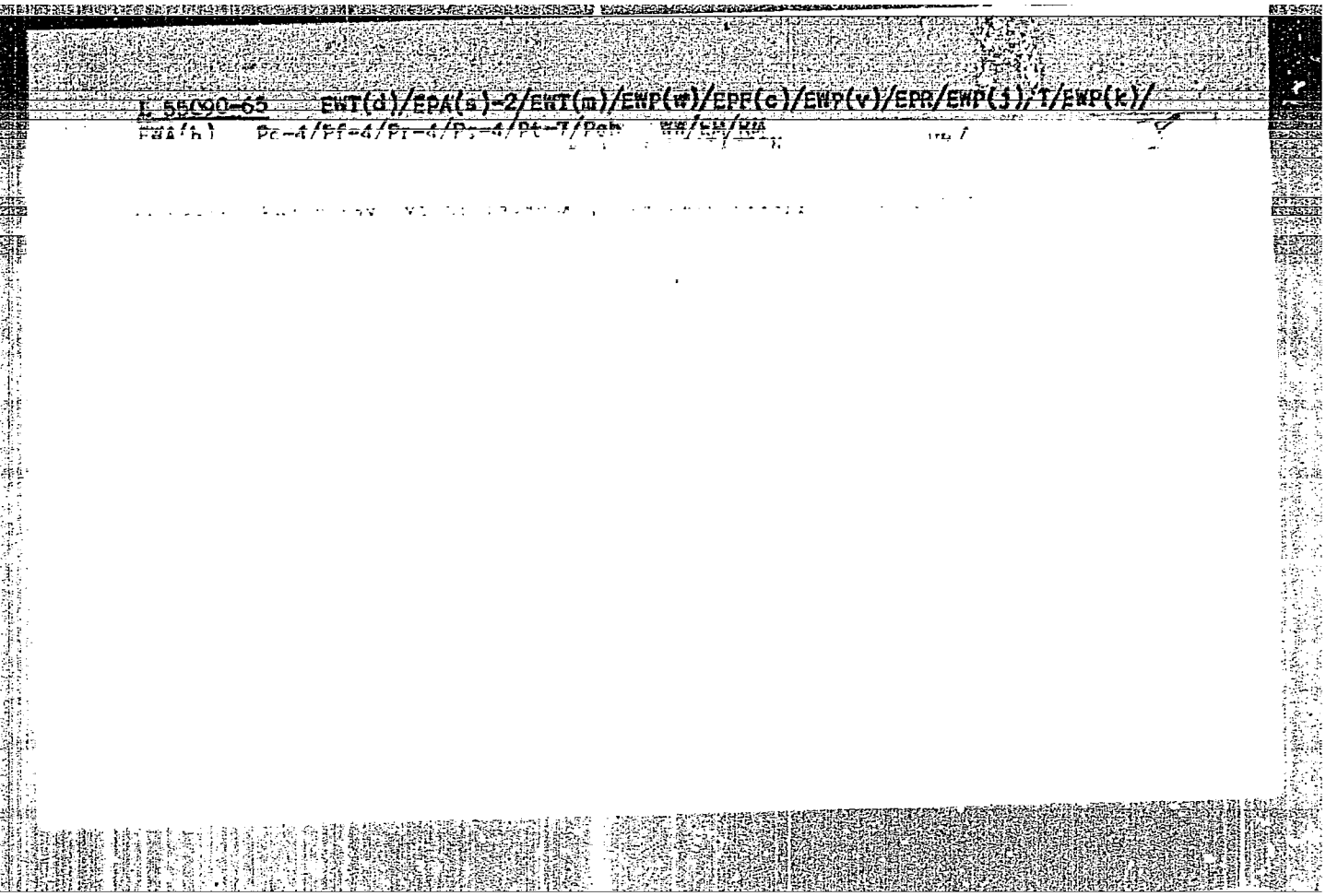

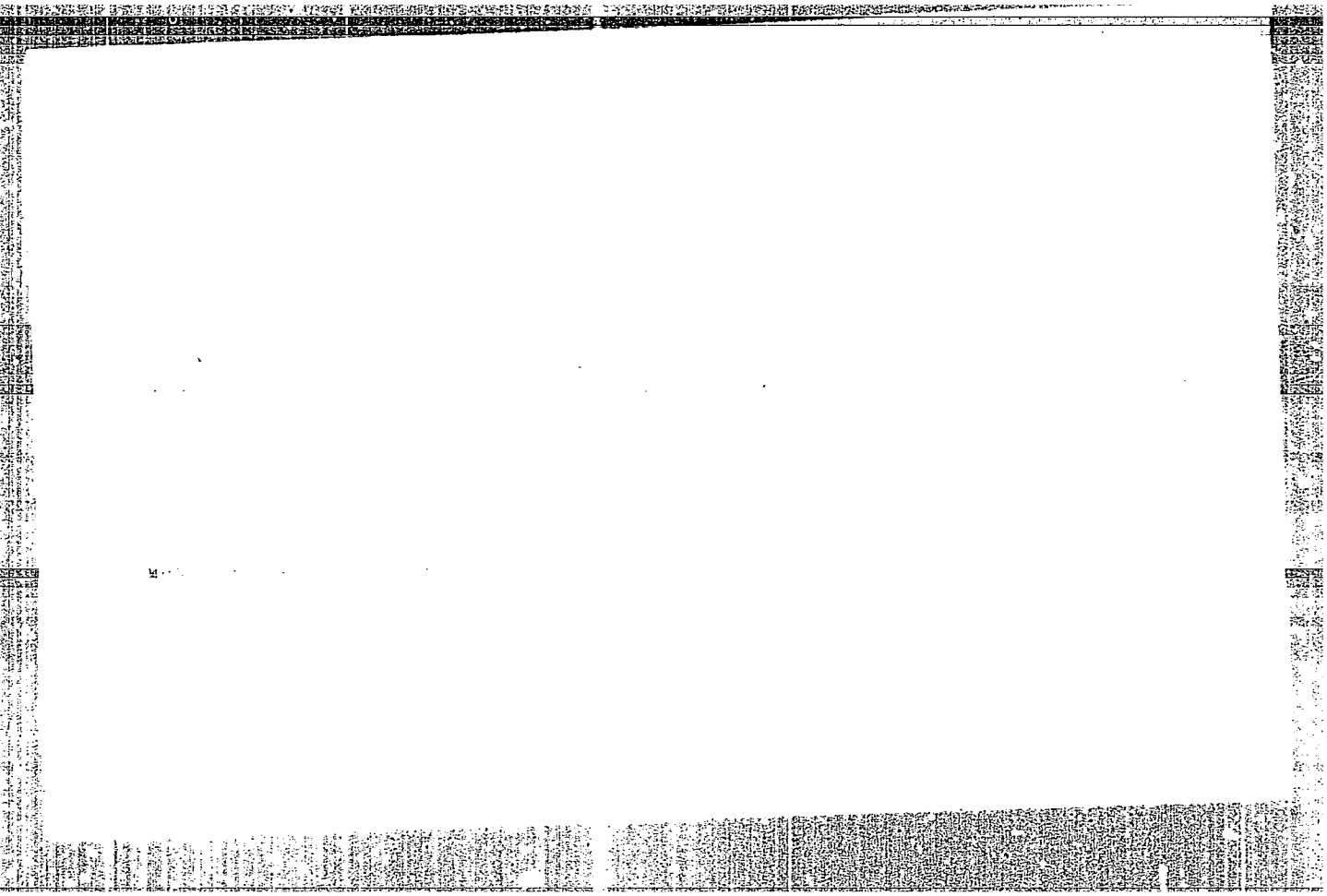

1. [illegible]ITSENKO, V.G.

2. USSR (600)

4. Oilseed Plants

7. Crambe hispanica, a new oilseed plant. Masl.zhir. prom. 17 no. 3. 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

YATSENKO, V. G.

Oilseed Plants

Experimental plantings of crambe, the new oilseed plant. Dost. sel'khoz. No. 3, 1953.

SO: Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

YATSENKO, V.G.

New scientific center. Sakh.prom. 34 no.6:1-4 Je '60.
(MIRA 13:7)

1. Vserossiyskiy nauchno-issledovatel'skiy institut sakharnoy svekly i sakhara.
(Russia--Sugar research)

SOV/137-59-4-8865

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 4, pp 215 - 216 (USSR)

AUTHOR: Yatsenko, V.I.

TITLE: Spark-Arc Generator for Spectral Analysis

PERIODICAL: Nauchn. zap. Ukr. poligr. in-t, 1958, Vol 12, Nr 1, pp 103 - 108

ABSTRACT: The described generator makes it possible to operate under the following conditions: 1) a.c. arc; 2) transformer system spark; 3) auto-transformer system spark; 4) high-frequency spark; 5) low-power high-voltage spark; 6) d.c. arc.

M.N.

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VARETSKAYA, [Varets'ka, T.V.]; LOSEVA, A.L. [Losieva, A.L.]; YATSENKO, V.I.

Determination of the activity of thrombin. Ukr. biokhim. zhur. 33 no;5:657-665 '61. (MIRA 14:10)

1. Institute of Biochemistry of the Academy of Sciences of the Ukrainian S.S.R., Kiyev.
(THROMBIN)

DUBININ, Ya. I., kand. tekhn. nauk, dotsent; LEBEDEV, A. N., kand. tekhn. nauk, dotsent; YATSENKO, V. P., assistent

Practical criterion on the correspondence of theoretical and experimental distribution of a random magnitude. Izv. LETI 59 no.46:106-117 '62. (MIRA 15:10)

(Mathematical statistics)
(Distribution(Probability theory))

SMOLOV, Vladimir Borisovich; LEBEDEV, Andrey Nikolayevich; SAPOZHNIKOV, Konstantin Andreyevich; DUBININ, Yakov Ivanovich; SMIRNOV, Nikolay Anisimovich; BODUNOV, Vasiliy Pavlovich; UGRYUMOV, Yevgeniy Pavlovich; YATSENKO, Vladimir Pavlovich. Prinimali uchastiye: BALASHOV, Ye.P.; AFANAS'YEV, Ye.Ye.; SEMENOVA, M.T., red.; GRIGORCHUK, L.A., tekhn. red.

[Electronic analog computers] Vychislitel'nye mashiny nepreryvnogo deistviia. [By] V.B.Smolov i dr. Moskva, Vysshaia shkola, 1964. 552 p. (MIRA 17:3)

YATSENKO, V.P.

Method for the preservation of peripheral nerves by deep freezing. Gemat. i perel. krovi 1:169-172 '63.

(MIRA 18:10)

1. Kiyevskiy institut perelivaniya krovi.

BODUNOV, V.P., prepod.; DUBININ, Ya.I., prepod.; LEBEDEV, A.N., prepod.; MARKOV, V.G., prepod.; SAPOZHKOV, K.A., prepod.; SMIRNOV, N.A., prepod.; SMOLOV, V.B., prepod.; UGRYUMOV, Ye.P., prepod.; YATSENKO, V.P., prepod.; BURLAK, M., red.

[Laboratory work on a course in "Electronic analog computers"] Laboratornye raboty po kursu "Vychislitel'nye mashiny nepreryvnogo deistviia." Moskva, Vysshaia shkola, 1965. 211 p. (MIRA 18:5)

1. Kafedra vychislitel'noy tekhniki Leningradskogo elektrotekhnicheskogo instituta im. V.I.Ul'yanova (for all except Burlak).

YATSENKO, V.S.

Artificial insemination station maintained by several collective farms. Veterinariia 35 no.2:69-72 F '58. (MIRA 11:2)

1.Glavnyy vetvrach Lubenskogo rayona, Poltavskoy oblsati.
(Lubny District--Artificial insemination)

NOVIKOV, V.A.; KICHIGIN, N.M.; YATSENKO, V.S.

Cleaning of beets harvested by combine. Sakh. prom. 32 no.8:12-18 Ag '58. (MIRA 11:9)

1.TSentral'nyy nauchno-issledovatel'skiy institut sakharnoy promyshlennosti.
(Sugar beets--Harvesting)

YATSENKO, V.S.

Technical conference on the mechanization of the unloading and piling of beets. Sakh.prom. 33 no.6:76-77 Je '59.
(MIRA 12:8)

(Sugar beets) (Loading and unloading)

YATSENKO, V.S.

Technical conference on problems involved in the testing of the unloading and piling machines for sugar beets. Sakh.prom. 34 no.5: 78-79 My '60. (MIRA 14:5)
(Sugar beets) (Loading and unloading)

YATSENKO, V. S.

Cleaning of sugar beets from trash on pilers. Khar. prom. no.1:15-18 Ja-Mr '63. (MIRA 16:4)

(Sugar beets—Cleaning)

YATSENKO, V.

YATSENKO, V.

Problem concerning installation and allowance standards for break and displacement of ships' shaftings. Mor. i rech.flot 14 no. 7: 21-23 Jl '54. (MLRA 7:7)
(Shafts and shafting)

YATSENKO, V.

Useful book for ship mechanics and ship repair workers. ("The repair of ship shaftings." A.G. Verete. Reviewed by V. IAtsenko). Mor.flot 16 no.4:31-32 Ap '56. (MLRA 9:8)

1. Glavnyy inzhener Dan'nevostochnogo parokhodstva.
(Ships--Maintenance and repair) (Shafts and shafting)
(Verete, A.G.)

YATSENKO, V.

Improving the flexibility of the ship's shafting. Mor.flot.16 no.8: 19-21 Ag '56. (MIRA 9:10)

1.Glavnyy inzhener Dal'nevostochnogo parekhodstva.
(Shafts and shafting) (Ships--Equipment and supplies)

YATSENKO, V. S., Cand Master Tech Sci --(diss) "Methods of improving the construction of a ship's shaft tube." Leningrad, 1957, 19 pp. (Leningrad Inst of Water-Transport Engineers), 120 copies. (KL, No 40, 1957, p. 93)

YATSENKO, V.

Optimum space between the bearing supports of ship shafting.
Mor.flot 17 no.1:15-17 Ja '57. (MLRA 10:3)

1. Glavnyy inzhener Dal'nevostochnogo parokhodstva.
(Shafts and shafting) (Bearings (Machinery))

YATSENKO, Valentin Semenovich; SIRYY, Yu.Yu., red.; SENKO, G.S., red. izd-va; LAVRENOVA, N.B., tekhn. red.

[Design of marine shafting and ways of improving it] Konstruktsiia sudovykh valoprovodov i puti ee uluchsheniia. Moskva, Izd-vo "Morskoi transport," 1958. 38 p. (MIRA 11:7)
(Shafting) (Marine engines)

STAROSEL'SKIY, Abram Assirovich; BELAKOVSKIY, Yakov Isayevich; [redacted] red.; MARCHUKOVA, M.G., red.izd-va; LAVRENOVA, N.B., tekhn.red.

[Bearings of ships shaft lines] Podshipniki sudovykh valoprovodov. Moskva, Izd-vo "Morskoi transport," 1959. 135 p.
(Shafting) (Bearings (Mechanics))

SEMENOV, Viktor Parmenovich; YATSENKO, V.S., red.; DIZHUR, I.M., red.izd-va; LAVRENOVA, N.B., tekhn.red.

[Modern methods of repair and mounting of ship shaftings] Sovremennye metody remonta i montazha sudovykh valoprovodov. Moskva, Izd-vo "Morskoi transport," 1959. 244 p. (MIRA 12:12)
(Ships--Maintenance and repair) (Shafting)

NOVIKOV, V.A.; KICHIGIN, N.M.; YATSENKO, V.S.; KRASNYUK, G.M., spets. red.

[Testing of unloading-piling, cleaning, and loading mechanisms for sugar beets] Ispytanie razgruzochno-ukladochnykh, ochistitel'nykh i pogruzochnykh mashin i mekhanizmov dlia sakharnoi svekly. Moskva, TSentr. in-t nauchno-tekhn. informatsii pishchevoi promyshl., 1964. 45 p. (MIRA 17:12)

MALAKHOV, Nikolay Dmitriyevich; POVEROV, Konstantin Iosifovich; YATSENKO, Valentin Semenovich; TUMM, I.D., retsenzent; SAMOYLOVICH, T.A., red.

[Operation of marine power plants] Tekhnicheskaia ekspluatatsiia sudovykh silovykh ustanovok. Moskva, Transport, 1964. 346 p. (MIRA 17:12)

YATSENKO, V.T.

Improve the design of piston pumps. Mekh. sil'. hosp. 11 no.12:27 D '60. (MIRA 13:12)

1. Brigadir montazhnoy brigady Troitskoy rayonnoy traktornoy stantsii Luganskoy oblasti.
(Reciprocating pumps)

YATSENKO, V.V., inzh.

Unit for mechanized feeding of metal sheets to falling shears.
Sudostroenie 25 no.6:42-44 Je '59. (MIRA 12:9)
(Shears (Machine tools))

YATSENKO, Ye.

Verbatim: - "Condensation of chloramine B with chloral, " Nauch. raboty studentov (L'vovsk. gos. un-t im. Franko), Collection 1, 1948, p. 109-10

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949.)

POPOV, V.D.; GARYAZHA, V.T.; YATSENKO, Ye.A.

Physical parameters of molasses waste. Trudy KTIPP no.22:43-47 '60. (MIRA 14:3)

(Molasses)

MOROZOV, A.A.; CHERKOVICH, N.I.; [illegible], V.V.; YATSENKO, Ye.A.

Investigating some physicochemical properties of the SC-1 carboxylic cation exchanger. Zhur.prikl.khim. 27 no.6:750-754 '54. (MIRA 14:11)

(Ion exchange)

STEPANOVA, O.S.; SEMENYUK, L.A.; DROZDOVSKAYA, A.I.; YATSENKO, Ye.A.

Syntheses of methoxymethylalkyl derivatives of barbituric acid. Ukr. khim. zhur. 29 no.10:1115-1116 '63. (MIRA 17:1)

1. Odesskiy gosudarstvennyy universitet im. I.I. Mechnikova.

MOROZOV, A.A.; OLENOVICH, N.L.; YERMILOVA, V.N.; YATSENKO, Ye.A.

Some physical and physicochemical properties of the SG-1 carboxyl cation exchanger. Nauch. ezhegod. Khim. fak. Od. un. no.2:74-78 '61. (MIRA 17:8)

STEPANOVA, O.S.; YATSENKO, Ye.A.

Synthesis and saponification of alkoxymethyl ethyl malonic esters.
Zhur.VKHO 8 no.1:114 '63. (MIRA 16:4)

1. Odesskiy gosudarstvennyy universitet.
(Malonic acid) (Saponification)

STEPANOVA, O.S.; TISHCHENKO, O.I.; DROZDOVSKAYA, A.I.; KAL'NITSKAYA, E.A.; PANCHUK, T.D.; YATSENKO, Ye.A.

Synthesis of some α-halo ethers. Zhur. VKHO 8 no.5:598-599 '63. (MIRA 17:1)

1. Odesskiy gosudarstvennyy universitet imeni Mechnikova.

STEPANOVA, O.S.; YATSENKO, Ye.A.

Synthesis and saponification of alkoxymethyl alkyl malonic esters.
Ukr.khim.zhur. 29 no.6:612-614 '63. (MIRA 16:9)

1. Odesskiy gosudarstvennyy universitet.
(Malonic acid) (Saponification)

STEPANOVA, O.S.; SAMITOV, Yu.Yu.; YATSENKO, Ye.A.

Nuclear magnetic resonance spectra of alkoxymethylethylmalonic acids and their esters. Zhur.ob.khim. 33 no.7:2267-2270 Jl '63. (MIRA 16:8)

1. Odesskiy gosudarstvennyy universitet i Kazanskiy gosudarstvennyy universitet.

(Malonic acid--Spectra)

SAMITOV, Yu.Yu.; YATSENKO, Ye.A.; STEPANOVA, O.S.

Synthesis and transformations of alkoxymethylalkyl malonic esters. Part 3: Nuclear magnetic resonance spectra of methyl esters of β-alkoxy-α-ethylpropionic acids. Zhur. ob. khim. 34 no.8:2652-2654 Ag '64. (MIRA 17:9)

1. Odesskiy gosudarstvennyy universitet im. I.I. Mechnikova i Kazanskiy gosudarstvennyy universitet im. V.I. Ul'yanova-Lenina.

YATSENKO, Ye.A.; STEPANOVA, O.S.

Synthesis and transformations of alkoxymethyl alkyl malonic esters. Part 1: Decomposition of alkoxymethylethylmalonic acids on heating. Zhur.ob.khim. 33 no.12:3823-3825 D '63. (MIRA 17:3)

BOGATSKIY, A.V.; STEPANOVA, O.S.; KOLESNIK, A.A.; GARKOVIK, N.I.; YATSENKO, Ye.A.

Certain characteristics of the reduction of alkoxyalkylmalonic esters with lithium aluminum hydride. Ukr. khim. zhur. 29 no.12:1926-1928 '64 (MIRA 18:2)

1. Odesskiy gosudarstvennyy universitet im. I.I. Mechnikova.

YATSENKO, Ye.F.

Comparative study of paraffin hydrocarbons in the heavy fractions of petroleums from Tertiary and Carboniferous deposits. Trudy VNIGNI no.11:188-193 '58. (MIRA 13:1)
(Paraffins) (Petroleum--Analysis)

YATSENKO, Ye.F.

Separating hydrocarbons from kerosene-oil fractions of petroleums by the use of thiourea. Trudy VNIGNI no.11:185-187 '58. (MIRA 13:1)

(Petroleum--Analysis) (Urea)

77928
SOV/65-60-3-1/19

15.4100

AUTHORS: Yatsenko, Ye. F., Chernozhukov, N. I.

TITLE: Higher n-Paraffins of Bitkovsk and Dolinsk Petroleum

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1960, Nr 3, pp 1-5 (USSR)

ABSTRACT: The higher n-paraffins of Bitkovsk and Dolinsk petroleum were studied by complex formation and chromatography on carbon. The study consisted of the following steps: Removal of gasoline fraction; precipitation of asphaltenes with a 20-fold amount of petroleum ether; removal of tars by chromatography on silica gel; and step-wise treatment of the obtained paraffin oil with urea. The amount of urea varied with each successive treatment, and it was 1:1; 2:1; 3:1 and 4:1, based on the starting oil fraction. Methanol (20% based on urea) was used as an activator, and chloroform as diluent and washing liquid. The complex formation was done at room temperature. Since the separation of n-paraffins is accompanied by the formation of complexes with other hydrocarbons, the obtained solid paraffins were subjected with repeated treatment with urea followed by dissolving in chloroform. The amount of chloroform was 8.3:1 based on starting

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paraffin oil sample and it was increased by 10% with each successive dissolving. This treatment with urea and chloroform was continued till the mp of the paraffin fraction was constant. The authors succeeded in separating 4 fractions of n-paraffins from each of Bitkovsk (17 ,12%) and Dolinsk (20, 12%) petroleum. The chromatography on carbon of these paraffins yielded 200 narrow paraffin fractions. Petroleum ether and benzene were used as eluents. The results are given in Table. The structure of obtained paraffins was confirmed by infrared spectra. There are 2 figures; 1 table; and 10 references, 8 Soviet, 1 German, 1 U.S. The U.S. re reference is: Swerh D., Ind. Eng. Chem., 47, 2, 215, 1955.

ASSOCIATION: Academician Gubkin Moskow Institute of Peoples' Economy and Gas Industry (Moscovskiy institut narodnogo khozyaistva i gazovoy promysglennosti imeni akad. Gubkina)

77928 SOV/65-60-3-1'19

Identification of the paraffin hydrocarbons obtained from oil fraction of Bitkovsk and Dolinsk petroleum.

A	B				C					D				
	$E\ n_D^{20}$	F	G	H	$E\ n_D^{20}$	F	G	H	I	$E\ n_D^{20}$	F	G	H	I
1 $C_{16}H_{34}$	1,4352[20]	16,5	226,4	95	1,4357[20]	16,5	227,3	95	0,18	1,4065	18,0	224,8	96,0	0,09
2 $C_{17}H_{36}$	1,4362[20]	21,7	240,5	98	1,4369[20]	20,4	242,1	97	0,18	1,4081	22,0	242,1	97,5	0,24
3 $C_{18}H_{38}$	1,4350[20]	28,1	254,5	100	1,4352[20]	28,0	253,8	100	0,09	1,4111	28,3	255,0	100,0	0,44
4 $C_{19}H_{40}$	1,4330[40]	32,0	268,5	102	1,4335[40]	32,0	267,5	103	0,48	1,4128	32,0	266,9	102,0	0,45
5 $C_{20}H_{42}$	1,4149	37,0	282,5	105	1,4146	37,0	283,0	105	0,60	1,4150	37,0	280,9	104,5	0,53
6 $C_{21}H_{44}$	1,4160	40,3	296,6	107	1,4162	40,5	297,2	107	0,18	1,4165	40,5	297,3	—	0,54
7 $C_{22}H_{46}$	—	44,5	310,6	109	1,4177	44,5	309,7	109	0,72	1,4181	44,5	312,1	110,0	0,49
8 $C_{23}H_{48}$	1,4190	47,3	324,6	112	1,4190	47,0	326,5	111	0,32	1,4190	46,9	325,0	112,0	1,03
9 $C_{24}H_{50}$	1,4205	50,7	338,6	114	1,4205	49,0	340,4	113	0,33	1,4202	50,5	337,5	114,0	1,56

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Identification of the paraffin hydracarbons obtained from oil fraction of Bitkovsk and Dolinsk petroleum.

A	B				C					D				
	n_D^{20}	F	G	H	n_D^{20}	F	G	H	I	n_D^{20}	F	G	H	I
10 $C_{25}H_{52}$	1,4292[30]	43,3	352,7	116	1,4224	53,5	351,0	115	0,02	1,4220	53,0	352,4	116,0	1,19
11 $C_{26}H_{54}$	1,4252	56,2	366,7	118	1,4230	56,0	365,1	117	0,41	1,4230	53,0	352,4	117,7	0,70
12 $C_{27}H_{56}$	1,4345[65]	59,5	380,7	120	1,4245	60,2	383,4	119	0,44	1,4242	59,2	382,3	119,2	0,37
13 $C_{28}H_{58}$	1,4248	61,3	394,7	121	1,4250	61,3	391,9	121	0 34	1,4250	61,5	396,1	121,0	0,26
14 $C_{29}H_{60}$	1,4285[44]	63,9	408,8	123	1,4260	62,5	406,8	123	0,38	1,4261	63,0	408,5	123,0	0,17
15 $C_{30}H_{62}$	1,4266	65,9	422,8	125	1,4270	65,0	420,5	125	0,21	1,4270	65,3	420,5	124,6	0,18
16 $C_{31}H_{64}$	1,4278	67,3	436,8	126	1,4275	68,0	430,9	126	0,25	—	—	—	—	—
17 $C_{32}H_{66}$	1,428	70,2	450,9	127,5	1,4278	70,0	448,0	127	0,20	—	—	—	—	—
18 $C_{33}H_{68}$	1,429	71,8	464,9	—	1,4290	72,0	463,2	129	0,24	—	—	—	—	—
19 $C_{34}H_{70}$	1,4296	72,7	478,9	—	1,4297	73,0	480,0	130	0,21	—	—	—	—	—
20 $C_{35}H_{72}$	1,4301	74,5	492,9	—	1,4303	75,0	495,0	131	0,13	—	—	—	—	—

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